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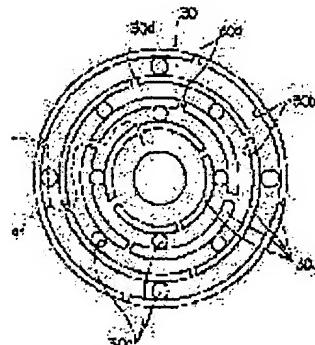
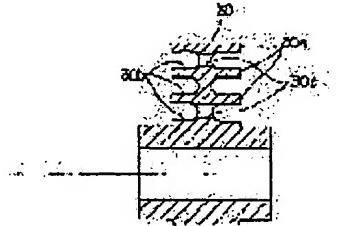
(21)Application number : 03-199012 (71)Applicant : NISSAN MOTOR CO LTD  
(22)Date of filing : 08.08.1991 (72)Inventor : IDE TAKANOBU

## (54) VISCOUS FLUID FILLED DAMPER

### (57)Abstract:

PURPOSE: To improve the charging efficiency of a flowing body to the reverse by communicating a lot of concentric circular uneven parts with each other, formed on both sides of a rotary disk by means of many communication holes, while forming a recess sectional form of these uneven parts into a V-shaped form.

CONSTITUTION: Plural recesses 30a are formed at both sides of a rotary disk 30 at regular intervals in the radial direction, and alternately combined with recesses formed on a casing chamber wall. Each recess 30b is formed between adjacent recesses 30a, and each sectional form of these recesses 30b is made up into an almost U-shaped form. Plural communication holes 30c communicating both sides of the disk 30 with each other are bored in each recess 30b. In addition, plural pieces of notches 30d are formed in recesses 30a so as not to be continued in the radial direction. Therefore charging of a viscous fluid is performed along a route (a) alternately passing through those of notches 30d and recesses 30b, residual air in a recess corner is extruded by a U-shaped section and thereby the fluid can be charged up to the corner while charging efficiency at both sides is improvable and, what is more, damping efficiency is enhanced.



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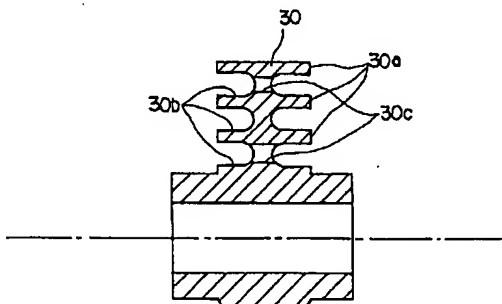
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(54)【発明の名称】 粘性流体封入ダンパー

(57)【要約】

【目的】 粘性流体の充填効率を高めることを目的とする。

【構成】 請求項1の発明は、パワーユニット側若しくは車体側の一方に結合されたケーシング20と、該ケーシング内部の室20aに余裕をもって収容されるとともにパワーユニット側若しくは車体側の他方に結合された回転円板30と、前記室20aに充填された粘性流体と、前記回転円板30の表面及び裏面に形成された同心円状の多数の凹凸部30a、30bと、を含む粘性流体封入ダンパーにおいて、前記回転円板30の表面と裏面を連通する複数の連通穴30cを前記回転円板30に形成した粘性流体封入ダンパー。また、請求項2の発明は、前記請求項1の発明の同心円状の凹凸部30a、30bの凹断面形状をU字状にした粘性流体封入ダンパー。さらに、請求項3の発明は、請求項1または請求項2の発明の同心円状の凹凸部の凹部30bを複数箇所で切り欠くと共に、該切り欠き位置を、回転円板の半径方向に沿って非連続となるように配置した粘性流体封入ダンパー。



30: 回転円板  
30a: 凸部(凹凸部)  
30b: 凹部(凹凸部)  
30c: 連通穴